

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321544

Luminaire Tested: **GAN-SA0D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49396 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

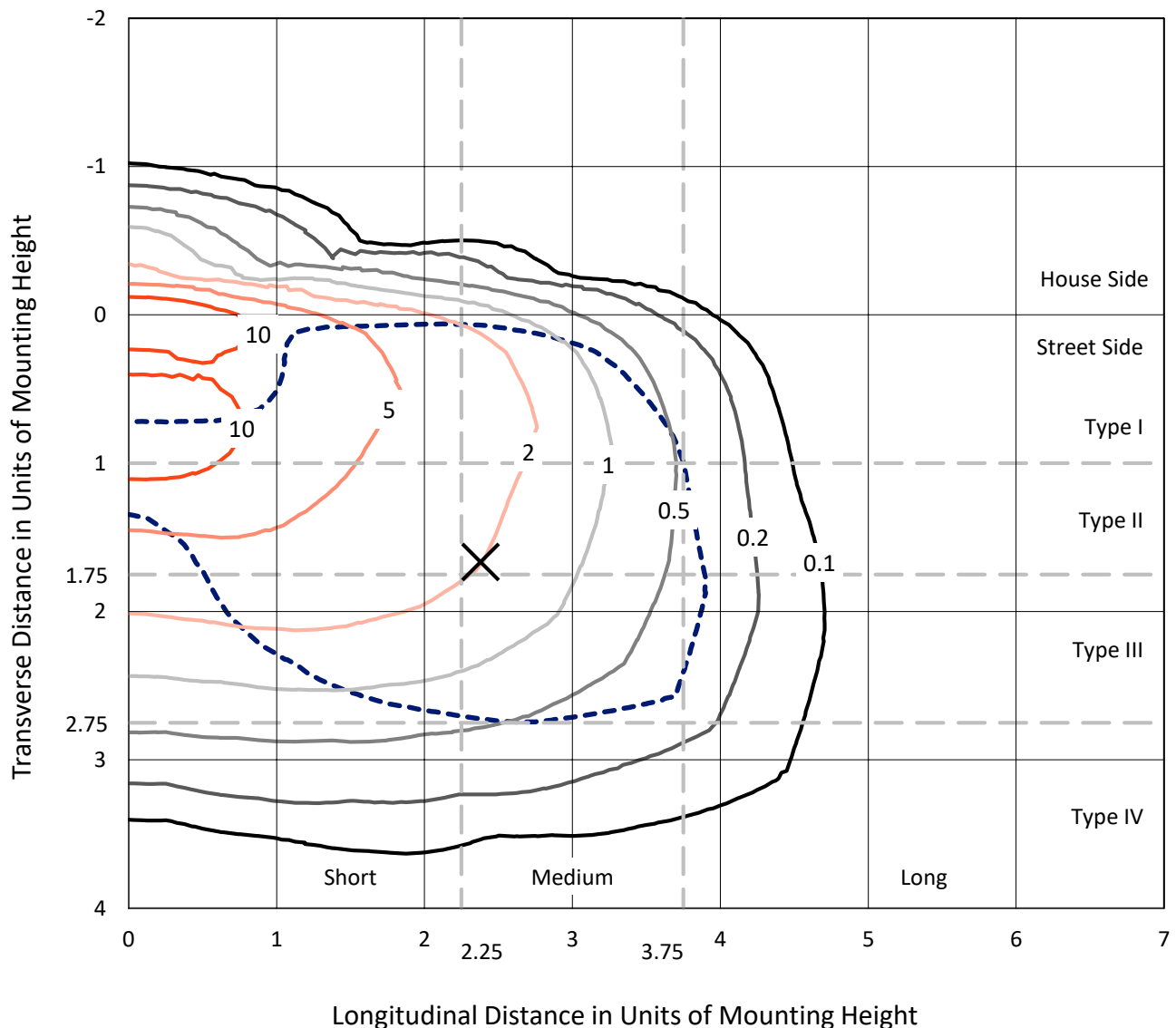
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

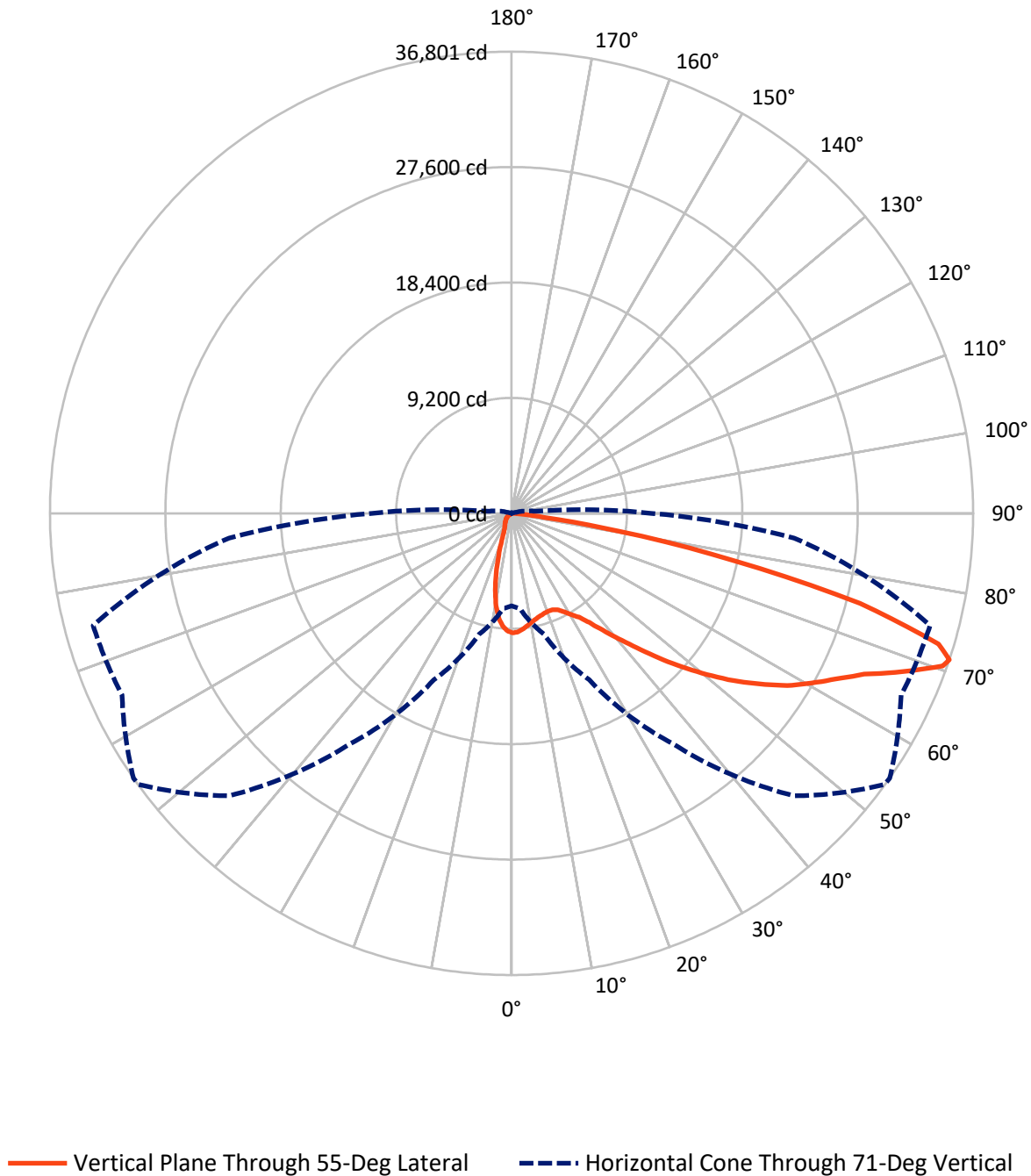
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3910.8	0.0	3910.8
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	45485.2	0.0	45485.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	49396.0	0.0	49396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.2	1.6
10°-20°	1833.7	3.7
20°-30°	2946.8	6.0
30°-40°	5006.7	10.1
40°-50°	7771.1	15.7
50°-60°	10448.0	21.2
60°-70°	12781.4	25.9
70°-80°	7473.0	15.1
80°-90°	323.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	49396.0	100.0
0°-180°	49396.0	100.0

Coefficient of Utilization



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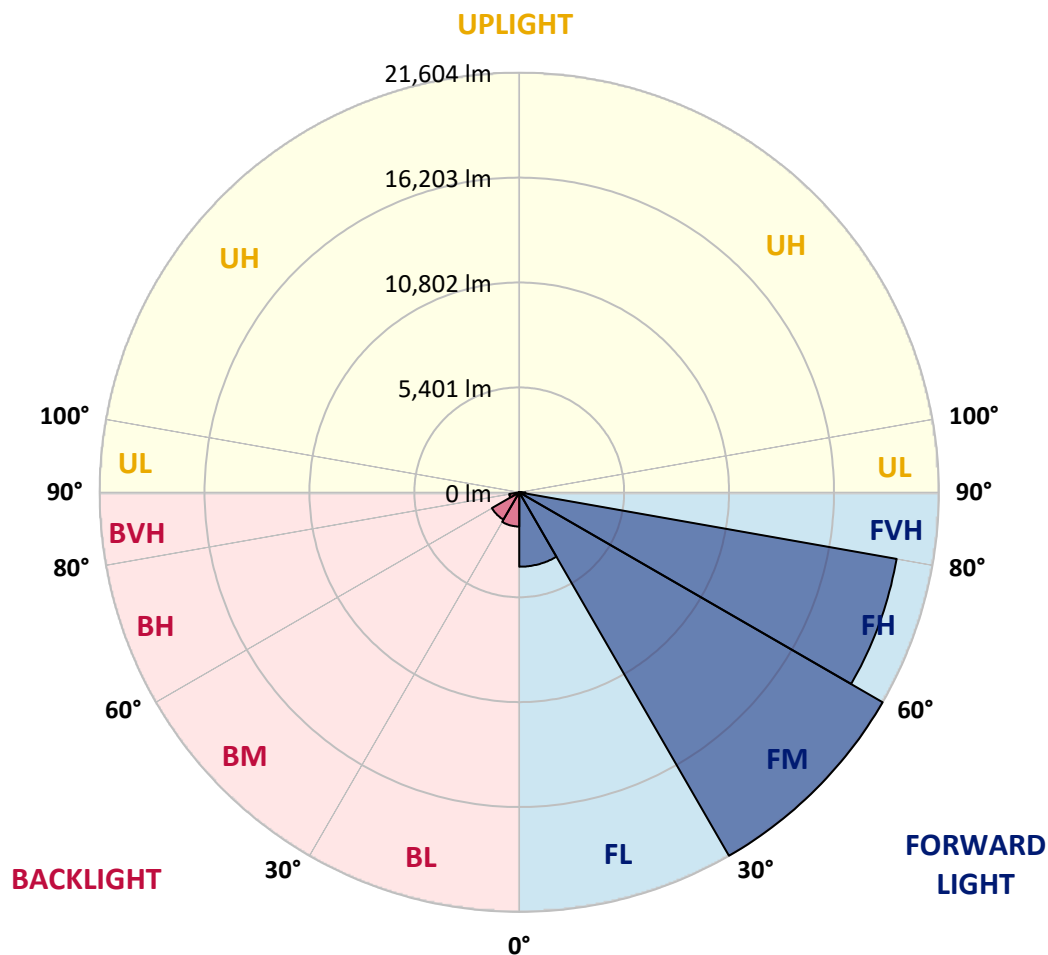
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3832.4	7.8			
FM	(30°-60°)	21604.4	43.7			
FH	(60°-80°)	19730.4	39.9			G5
FVH	(80°-90°)	317.9	0.6			G3/500
BL	(0°-30°)	1760.3	3.6	B3/2500		
BM	(30°-60°)	1621.5	3.3	B2/2500		
BH	(60°-80°)	524.0	1.1	B2/1000		G2/1000
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2
2.5°	9246.7	9257.8	9297.7	9315.5	9357.6	9428.6	9464.1	9466.3	9524.0	9546.2	9563.9
5°	8592.4	8659.0	8725.5	8796.5	8925.1	9095.9	9264.5	9280.0	9466.3	9603.8	9677.0
7.5°	8029.1	8088.9	8168.8	8281.9	8463.8	8732.2	9013.8	9047.1	9399.8	9712.5	9876.6
10°	7450.2	7499.0	7614.3	7780.7	8031.3	8390.6	8769.9	8825.3	9339.9	9858.9	10147.2
12.5°	6831.4	6860.2	6999.9	7239.5	7607.6	8064.6	8563.6	8636.8	9302.2	10027.5	10466.6
15°	6361.1	6374.5	6507.5	6755.9	7177.4	7771.8	8403.9	8492.6	9311.1	10229.3	10814.8
17.5°	6241.4	6248.0	6319.0	6489.8	6862.4	7510.1	8277.5	8386.2	9337.7	10426.7	11165.3
20°	6727.1	6680.5	6607.3	6580.7	6740.4	7352.6	8202.1	8324.1	9373.2	10601.9	11480.2
22.5°	8060.1	7922.6	7618.7	7212.8	6966.7	7363.7	8222.0	8344.0	9486.3	10817.1	11844.0
25°	10038.5	9847.8	9331.0	8532.5	7765.1	7683.1	8388.4	8512.6	9705.9	11074.3	12192.2
27.5°	12289.8	12101.3	11469.1	10329.1	9020.5	8315.2	8769.9	8885.2	10031.9	11302.8	12458.4
30°	14445.7	14392.4	13647.2	12351.9	10599.7	9339.9	9262.3	9359.8	10273.7	11440.3	12669.1
32.5°	16273.3	16189.0	15590.1	14330.3	12407.3	10570.9	9841.1	9870.0	10455.5	11617.7	12944.1
35°	17967.8	17863.6	17337.9	16146.8	14261.6	12074.6	10732.8	10690.6	10852.5	11974.8	13343.3
37.5°	19447.2	19542.6	18959.2	17825.9	15925.0	13638.3	11934.9	11808.5	11473.6	12555.9	13922.2
40°	20684.8	20684.8	20381.0	19436.1	17721.6	15255.2	13294.5	13128.2	12407.3	13452.0	14656.4
42.5°	21130.6	21226.0	21339.1	20804.6	19329.6	16936.4	14809.4	14636.4	13722.6	14722.9	15583.5
45°	21157.2	21308.1	21887.0	21884.7	20782.4	18606.6	16517.2	16435.2	15408.3	16355.3	16732.4
47.5°	20782.4	20970.9	21924.7	22465.9	21933.5	20161.4	18384.8	18282.8	17388.9	18355.9	17934.5
50°	20203.5	20412.0	21521.0	22694.3	22716.5	21514.3	20352.1	20199.1	19569.2	20642.7	19176.6
52.5°	19167.7	19571.4	21159.5	22747.5	23231.1	22683.2	22224.1	22157.6	22009.0	22845.1	20165.8
55°	16952.0	17400.0	20252.3	22765.3	23707.9	23719.0	23978.5	23996.3	24295.7	24903.4	20902.2
57.5°	15905.1	16157.9	18668.7	22849.6	24415.5	24894.5	25766.2	25903.7	26367.3	26857.4	21742.8
60°	15246.3	15545.8	17888.0	22734.2	25526.7	26436.0	27423.0	27469.6	27966.4	28873.6	22880.6
62.5°	14720.7	15015.7	17395.6	22290.6	26775.4	28290.3	29042.1	29046.6	29419.2	31275.6	24173.7
65°	13423.2	13671.6	16399.7	21791.6	27600.5	30124.5	30923.0	30894.2	31198.0	33808.6	25675.3
67.5°	11546.8	11737.5	14365.8	19899.7	27289.9	31792.4	33762.0	33666.6	33298.4	35997.7	26265.2
70°	8927.3	8996.1	11322.8	16583.8	24380.0	32433.4	36505.6	36456.8	34587.1	35605.1	24102.7
71°	7379.2	7605.4	9978.7	14636.4	22430.4	31841.2	36771.8	36800.6	34263.3	34536.1	22614.5
72.5°	4285.1	4478.1	7232.8	11240.7	19043.5	29370.4	35392.2	35600.7	32750.6	31413.2	19316.3
75°	918.2	982.6	2681.5	5440.7	10475.5	20585.0	27935.4	28678.4	26693.3	21370.2	11642.1
77.5°	638.8	689.8	1148.9	2468.6	3462.3	10171.6	17353.4	18191.8	15947.2	8031.3	3726.2
80°	505.7	563.4	896.1	1219.9	936.0	3280.4	8128.9	8641.2	5318.7	1792.1	627.7
82.5°	281.7	334.9	698.7	658.7	359.3	623.3	2275.6	2572.8	1064.6	361.5	148.6
85°	82.1	99.8	450.2	479.1	153.0	119.8	388.1	481.3	201.8	95.4	66.5
87.5°	0.0	0.0	217.4	184.1	44.4	17.7	35.5	39.9	39.9	39.9	44.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2
2.5°	9563.9	9579.4	9524.0	9450.8	9373.2	9277.8	9178.0	9100.3	9098.1	9060.4	9022.7
5°	9681.5	9672.6	9519.5	9286.7	9011.6	8725.5	8452.7	8144.4	8042.4	7915.9	7873.8
7.5°	9898.8	9836.7	9512.9	9002.8	8399.5	7800.6	7181.8	6558.5	6292.4	6052.8	6010.7
10°	10171.6	10054.1	9470.7	8576.9	7470.1	6365.6	5431.8	4584.6	4211.9	3925.8	3912.5
12.5°	10455.5	10275.9	9353.2	7933.7	6252.5	4699.9	3624.2	2790.2	2479.7	2280.1	2297.8
15°	10752.7	10484.4	9100.3	7066.5	4866.2	3189.4	2226.8	1736.7	1612.5	1561.5	1574.8
17.5°	11056.6	10628.5	8747.7	6021.8	3497.7	2058.3	1541.5	1404.0	1404.0	1415.1	1419.5
20°	11320.5	10706.2	8228.7	4850.7	2371.0	1499.4	1348.5	1328.6	1339.7	1357.4	1359.6
22.5°	11582.3	10710.6	7552.2	3664.1	1659.0	1313.0	1284.2	1275.3	1282.0	1302.0	1304.2
25°	11795.2	10657.4	6704.9	2606.1	1324.1	1237.6	1224.3	1219.9	1224.3	1248.7	1248.7
27.5°	11881.7	10464.4	5671.4	1832.0	1186.6	1153.3	1148.9	1153.3	1160.0	1177.7	1180.0
30°	11890.6	10127.3	4544.6	1326.3	1075.7	1040.2	1049.1	1064.6	1058.0	1053.5	1058.0
32.5°	11912.7	9736.9	3446.7	1091.2	982.6	927.1	916.0	916.0	889.4	873.9	865.0
35°	11985.9	9277.8	2499.7	980.3	887.2	822.9	780.7	731.9	680.9	654.3	647.6
37.5°	12101.3	8796.5	1789.9	907.2	802.9	729.7	649.9	563.4	490.2	470.2	470.2
40°	12312.0	8299.7	1324.1	849.5	736.4	645.4	525.7	412.5	346.0	334.9	334.9
42.5°	12644.7	7776.2	1055.8	798.5	678.7	558.9	401.5	299.4	250.6	244.0	241.8
45°	12990.7	7199.5	922.7	749.7	616.6	459.1	297.2	221.8	193.0	186.3	186.3
47.5°	13336.7	6585.2	858.4	703.1	556.7	357.1	221.8	175.2	161.9	161.9	164.1
50°	13629.4	5944.2	811.8	652.1	479.1	270.6	175.2	148.6	144.2	153.0	155.3
52.5°	13702.6	5314.3	754.1	587.8	383.7	206.3	144.2	130.9	130.9	130.9	130.9
55°	13658.3	4826.3	678.7	507.9	283.9	164.1	124.2	115.3	113.1	113.1	113.1
57.5°	13809.1	4538.0	543.4	394.8	204.1	133.1	108.7	102.0	97.6	95.4	95.4
60°	14113.0	4349.4	388.1	283.9	153.0	110.9	93.2	86.5	79.8	75.4	75.4
62.5°	14516.6	4185.3	288.3	210.7	117.6	88.7	77.6	71.0	62.1	57.7	57.7
65°	14827.2	3892.5	219.6	157.5	88.7	71.0	59.9	57.7	44.4	39.9	37.7
67.5°	14352.5	3249.3	177.4	115.3	66.5	55.4	46.6	44.4	26.6	22.2	22.2
70°	12309.8	2262.3	142.0	84.3	48.8	44.4	37.7	28.8	20.0	17.7	17.7
71°	11163.1	1889.7	128.6	71.0	42.1	42.1	35.5	24.4	17.7	15.5	15.5
72.5°	9273.3	1341.9	108.7	55.4	37.7	44.4	37.7	22.2	17.7	15.5	13.3
75°	5383.0	561.1	75.4	37.7	28.8	53.2	48.8	20.0	13.3	11.1	11.1
77.5°	1619.1	206.3	42.1	24.4	22.2	46.6	55.4	17.7	6.7	2.2	2.2
80°	295.0	88.7	26.6	15.5	15.5	28.8	42.1	8.9	0.0	0.0	0.0
82.5°	104.2	44.4	15.5	8.9	6.7	13.3	20.0	0.0	0.0	0.0	0.0
85°	59.9	31.1	8.9	4.4	0.0	2.2	4.4	0.0	0.0	0.0	0.0
87.5°	39.9	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)